



Topographic Openings

Mid-Continent Mapping Center



SEPTEMBER-OCTOBER
1979

GEOLOGICAL SURVEY, TOPOGRAPHIC DIVISION
1400 Independence Road, Rolla, Missouri 65401

Vol. 2
No. 1

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J. C. Earl Illustrators

COVER PHOTO: Fort Leonard Wood campground
on the Big Piney River near Highway J.
Photo by Jack Forbes.

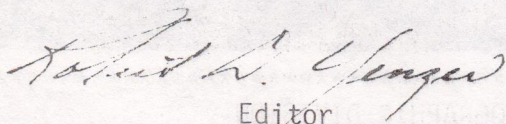
FROM THE EDITOR'S DESK

The new staff of "Topographically Speaking" wishes to extend congratulations for "a job well done" to the former staff. We shall strive to continue issuing a quality publication from MCMC.

To all employees within the Center and in the Field District, remember, this newsletter is your medium of written communication.

Contributions to the newsletter can be articles on new equipment or procedures, special projects, meetings, events of interest to fellow employees, unusual field assignments, etc. Photographs are accepted and whether used or not will be returned to the individual who submits them.

Remember, we as the staff put it "all" together but, you as the individuals contribute the "all".


Editor

MCMC FORUM

To further the opening of channels of communication, "Topographically Speaking" will accept letters to the editor. Letters in the form of questions, opinions, rebuttals, and suggestions may be published in future issues. If published the author's name will be withheld at the author's request. For questions submitted, the answers will be requested from the persons deemed most capable of furnishing the correct reply.

Mail or present your letters to
R. D. Yenzer, Editor, "Topographically Speaking," Room 306.

NEW MAP AND CHART INFORMATION SYSTEM

A new computerized national Map and Chart Information System (MCIS) that will provide greatly expanded and quicker service to map users has been developed and put into operation by the U.S. Geological Survey, Department of the Interior, the nation's largest civilian map-making agency.

According to Gary North, Chief of the Survey's National Cartographic Information Center, "The MCIS is designed to provide, overnight, detailed listings of maps available for any area of the United States. The new system substantially improves our capability to serve as the nation's 'one-stop' map information facility."

The USGS produces many kinds of maps and cartographic products -- including geologic, hydrologic, land use, and satellite image maps. MCIS will include them as well as information about any national maps such as historical maps held by the Library of Congress and the National Archives, nautical charts produced by the National Ocean Survey or soils maps from the Soil Conservation Service.

MCIS currently can provide coverage on about 160,000 maps and charts. Coverage is expected to expand to about a million maps by 1985.

Included in this coverage are over 125,000 of the 7.5- and 15-minute quadrangle maps that are the heart of the USGS topographic map series.

Most routine requests from the public for information from the MCIS will be handled without charge. Requests requiring considerable computer time may require nominal reimbursement.

Under the new system, requests for information on map coverage of the U.S. received during the day are transmitted to the main computer in Reston where they are stored until the evening hours when computer time is less expensive. The information requested is then searched for by the computer and the results of the search made available the next working day as a printout.

The printout describes each map that meets the qualifications of the request through the use of 30 basic identifying terms including map name, date (publication, survey, revision, and photography), horizontal and vertical datum, contour intervals, projection, grid coordinates, relief and microfilm availability. In addition, the printout provides information on the publisher of the map including address and phone number.

Persons wishing to use the MCIS may call, write or visit any of the six regionally located National Cartographic Information Center offices or they may contact an NCIC State affiliate office. There are presently 22 NCIC State affiliate offices which can provide access to MCIS.

A special feature of the system is its ability to graphically display the outline of each map that's

shown on the computer printout on a background of the State in which it is located. North says that the display will help people decide whether a map really pinpoints the area they are looking for, as well as show any gaps in the map coverage of large areas that might otherwise go undetected.

Highlights of the new system include its capabilities to:

- * Identify maps by latitude and longitude.
- * Select a map by subject.
- * Identify maps and charts having multiple sheets, insets or a combination of both.
- * Select historical editions of the same map.
- * Allow the data base maintenance staff to add free test, administrative or descriptive commentary about the product.
- * Graphically display requested information for a given point, point and radius, polygon or corridor.
- * Incorporate other machine readable data base listings.

North says that because of the continually increasing demand for mapping information, a catalog describing all maps covered by the MCIS will be produced semi-annually with the first printing to coincide with the demonstration. Individual State chapters of the catalog will be available for purchase in a microfiche for \$.20 per fiche.

NCIC State affiliated offices within the MCMC area of jurisdiction are located in Baton Rouge, La.; Saint Paul, Minn.; Jackson, Miss.; Lincoln, Neb.; and Bismarck, N.D.

WE CAN DO IT FOR YOU

by R. D. Yenzer

The Federal Emergency Management Agency needed photo coverage between Gulfport and Pascagoula, Mississippi for emergency planning in front of the advancing hurricane Frederic. NCIC Reston called NCIC Rolla on September 10 to inform us of the needed photo coverage. The request involved 66 frames to be printed as 132 4X enlargements. The enlargements were needed as quickly as we could produce them. Our Photoimagery Section, under the direction of George Cannell, rushed to process the request. Beginning at 3:30 p.m. enlargements were produced using the E-4 rectifier. Eighteen hours later George, Jack Gentry, Bill Heimberger and Bill Schaub completed the task.

The following morning Charles Croom and Dave Schneider, NCIC personnel, hand delivered the forty-five pounds of enlargements to Eastern Airlines and TWA in St. Louis for immediate shipment to FEMA Region IV, Atlanta, Georgia and FEMA Office of Disaster Response and Recovery, Washington, D.C.

GERBER PLOTTER MOVES

by R. D. Yenzer

Upon delivery last year the Gerber Plotter was temporarily setup in the warehouse area. Its usage was limited due to a lack of a totally controlled environment. A specially designed room was constructed to utilize all of the capabilities of the plotter. The room has a dedicated electrical circuit, a controlled temperature and humidity system and darkroom ability.

To move the Gerber Plotter from the warehouse to the newly constructed room involved considerable planning and some building modification. Mr. Floyd Teter, Chief, Instrument Maintenance Unit, made the moving arrangements and did the planning. An interior fire door located near the Health Unit was removed and the opening enlarged. A knockout panel was



Easy men!

installed between the hallway and room 700 and also in the wall of the specially designed Gerber Plotter room. These openings had to be large enough to allow the 11'10" by 7'8" plotting table to pass through.



Tight squeeze!

With the weight of the table being almost one ton, considerable manpower was required for the move. Duncan Moving Company furnished nine men. Mr. Charles Estelle of Gerber Scientific Instrument Company, Hartford, Connecticut, was in charge of the actual movement. With much physical effort the table was placed on edge and heavy duty, low profile dollies were positioned to carry the load. Clearance at hallway corners was very tight, but the move was completed with no major problems. The table was lowered to its final resting place with a sigh of relief from all.

PRE-COMPILATION INSPECTION
OF THE GREEN BAY, WISCONSIN
1:250,000 QUADRANGLES

by Phil Lampert

During the period of August 7 to August 10 Homer Briggeman, Branch of Photogrammetry, and Bill Good, Geography Program Coordinator, traveled to Green Bay, Wisconsin, for a Pre-Compilation Inspection of the Green Bay 1:250,000 quadrangle Land Use/Land Cover Map.

The Pre-Compilation Inspection includes flying over pre-selected areas in a Cessna 182, taking 35mm photographs, and driving to various selected sites and taking pictures from ground level.

The photographs are to aid in the identification of various Land Use/Land Cover categories. The main areas of concern were forested wetland, non-forested wetland and various categories of forest cover whether deciduous, coniferous, or mixed. Urban, non-urban, industrial, and commercial areas were also investigated.

Pre-Compilation trips of this nature are taken for each new geographical area to be mapped; however, this is the first time at MCMC that a compiler was involved in Pre-Compilation Inspection.

We have now started compilation of the Green Bay 1:250,000 LU/LC map using USGS 40,000-ft. black and white photography with a PG-2 equipped with an automatic table.

Compilation is progressing smoothly with very few areas in question due to the information obtained on the pre-Compilation inspection trip.

SAVE ENERGY THIS WINTER
By Rolla Energy Board

Now is the time to make last minute preparations for the oncoming winter. Use this checklist to save money and energy:

- Insulation. Is it adequate? You should have R-30 in the ceilings, R-19 in the walls, and R-19 over unheated crawl spaces and garages.

- Drafts. Check your windows and doors for airtightness. If a draft exists, use caulk or weatherstripping to plug the leaks.

- Storm windows. The most efficient way to let light in and keep cold out is to use storm windows. If you cannot afford them, try using plastic fitted on wood frames and set in the window. They won't last as long but they will help.

- Closing of unoccupied rooms. There is no use heating them if no one uses them (be sure heat has access to anywhere in your house where there are water pipes).

- Thermostat. Sweaters are cheaper than heat. As you can use them over and over again. Turn your thermostat down and keep it there. You'll save 3% of your bill for every degree you lower the temperature on your thermostat.

- Fireplace. Your fireplace will use more heat to burn than it gives you in warmth if you don't use it properly. The most efficient fireplaces have a glass front to cut down on the amount of warm air taken from the room to hold a fire. Many types also have blowers installed to help circulate the warm air produced by the fire. A safety reminder; be sure you've cleaned out your chimney flue each year at the beginning of the heating season.

- Oil Furnace. Be sure to have your oil furnace serviced at least once a year. It's possible also that your furnace can be "derated" for better fuel efficiency. Savings of up to 25% can be realized.

- Filter. Clean and/or replace the filter in your forced-air heating system each month.

- Solar. Use the winter sun to your advantage. Keep draperies and shades open in sunny windows; close them at night.

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- Clothing. Remember, the whole point of heating is to make you comfortable. Wear more and warmer clothing in the home to make you comfortable. You'll find less need to maintain higher temperatures in your home.

The purpose of this short guide is to save you money and energy. If you have further questions about these and other energy topics contact the Rolla Energy Board at City Hall.



On October 4, Dave Schneider was honored with a medal for scientific achievement in polar operations from the Queen of England. The medal was presented to Dave in Washington, D.C. by the Chargé d'Affaires of the Australian Embassy, R. N. Birch.

"CARTO 79"

By P. D. Lampert

As the end of the fiscal year approached, the Branch of Cartography was again a beehive of activity. When the workload shifted to the various sections, overtime was authorized to help meet our fiscal commitments.

Lab orders were hand carried to and from the Photolab. Materials and products moved swiftly but orderly from the editors to the compilers and finally to the review editors.

Even with all this activity our quality standards were maintained and our deadlines were met.

Listed below is a summary of the Fiscal Year 1979 Deliveries:

New 7.5-minute maps	457
Photorevised maps	282
Reprints	171
Orthophotoquads	19
LUDA overlays	23
BLM 100K maps	51
SCS county maps	58
DMA maps	16
SCS slope maps	36
Special maps	56

In addition to the fiscal year 1979 deliveries, the Branch also prepared guides for 774 quadrangles for contract scribing. We presently have 10 contracts with 8 mapping companies, requiring monitoring at various intervals according to map complexity.

Personnel can be proud of this year's achievement and can look forward to those snowy Saturday mornings when they will diligently be working on next year's commitments.

Happiness is a hard thing to achieve because it comes only by making others happy.

DID YOU KNOW.....

Over \$14,000 worth of maps and related items were sold by our NCIC office in August.

In July 45,000 Xerox copies were made on the Xerox machine in Room 310.

There are 5 female topographic field assistants presently employed by MCMC.

Hiding your head in the sand is a poor way of keeping your end up.

Kindness is the kingpin of success in life; it is the prime factor in overcoming friction and making the human machinery run smoothly.

And then from an anonymous author. Always borrow from a pessimist, he never expects to be paid back.

SURVEY PICNIC AT TRAVERSE CITY, MI

By J. P. Ryan

On Saturday, September 15, 1979, a Survey picnic was held at Traverse City, Michigan. The weatherman cooperated in supplying a beautiful day with mild temperatures. Just the right kind of a day for some lively games of volley ball and a bit of horseshoe pitching along with much visiting by all. There was a good turnout of Survey families due to the proximity of so many fieldmen. Field parties from Cheboygan, Lake City, Ludington, Newaygo, and Traverse City were in attendance. The location was Clinch Park on the shore of beautiful Grand Traverse Bay. The City Zoo was nearby and kept the children and others busy looking at the animals for part of the day.

Field personnel attending were the D.W. Bennetts, R.R. Blasiers, J.T. Felkersons, M.M. Harrisers, D.E. King, J.L. Kirks,

T.G. Larsons, J.J.P. McHugh, D.F. Paquettes, R.E. Rineharts, J.P. Ryan, G.D. Scroggins, R.P. Sidie, L.M. Tacketts, V.P. Taipale, and D.W. Williams.

ANNUAL SURVEY PICNIC

By J. Earl

On Saturday, September 15, MCMC held its annual picnic at pavilion #2 at the Lion's Club Park.

The first event scheduled was the horseshoe pitching contest. After two hours of pitching by the 16 participants, Don Beasley was presented his golden horseshoe.

During the horseshoe contest, several children's events were taking place. The fishing derby was a popular event with the largest fish measuring an enormous 4½ inches (if you catch'm they're Keepers!). Sack races and three-legged races saw the participants flopping while the balloon toss left contestants surprised that it took so little for the water filled balloons to break.

For those adults who didn't participate in horseshoes, there were three legged races, balloon tosses, and refreshments.

When dinner was served the crowd had grown to approximately 300 employees, their families, retirees, relatives, and friends.

After the hamburgers were served, almost everyone complimented the cooks (Bob Yenser, Ed Schwartz, Jim Earl, and Larry Jontz) on the "large juicy hamburgers".

After the meal a softball game developed with people of all ages endeavoring to run off their supper while others caught up on the latest news. About 7:30 everyone but a few die hards headed for home exhausted but with pleasant memories.





SOCIAL COMMITTEE THANKS "YOU!"

By Don Beasley
Chairman, Social Committee

The USGS Social Committee wishes to express their appreciation to each of you who helped make the 1979 Survey picnic such a success.

Approximately 275 people attended the event and we wish to thank them all for their interest and participation. A special thanks goes to the ladies for all the delicious covered dishes that they prepared. And thanks to all the children and adults who joined in the fishing derby, horseshoe pitching tournament, softball, and other games.

A good deal of work went into this event. The Social Committee greatly appreciates those of you who worked with us in handling activities, and those who helped us with the manual labor. We also are thankful for the supervisors who let us recruit their people, and to those who loaned us their vehicles and equipment. The picnic was a success only because of your help.

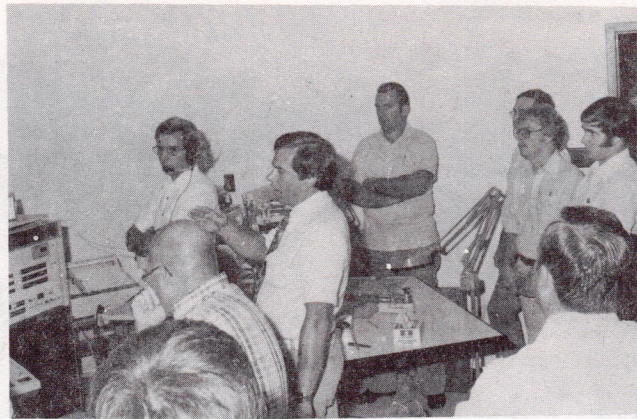
For those of you who were unable to attend this year's picnic, we hope to see you next year. And for those of you who did attend, we look forward to seeing you again next year.



ASP NEWS

By John Van Horn

The Rolla Region of the American Society of Photogrammetry met Monday, September 10 at 8:00 p.m. in the main conference room with about fifty members and guests in attendance. President Jerry Combs introduced the program for the evening which was a team of Mid-Continent Mapping Center personnel who discussed the digitizing program and demonstrated the digitizing equipment now in use at MCMC.



Glen Osick & Doug Bullock explains the "Voice Data Entry System".

John Powell gave a short talk describing the program. What has been accomplished to date, what is projected for the future, and the effect it will have on the mapping program and personnel here at the Mid-Continent Mapping Center.



Dan Canfield expounding on the "DEPROS".

The demonstration team consisted of Glenn Osick and Doug Bullock demonstrating the "Voice Data Entry System" which is currently used with the PG-2 and AC-189 for stereomodel digitizing, and enables the operator to identify map features vocally and enter them directly onto the magnetic tape unit. This replaces the keyboard which was formerly used to physically enter the attribute codes. Dan Canfield demonstrated the "Digital Profile and Recording Output System" now used to produce orthophotos and digital elevation models. The "Altec Digitizer," which is



Jeff Goldberg shows off the "Altec Digitizer".

used for the production of digital line graphs and the conversion of map lines into computer form, was demonstrated by Jeff Goldberg.

Refreshments were served after the meeting.

GLORIA STEINHEM - MEET A CONVERT
by Daniel Meyer

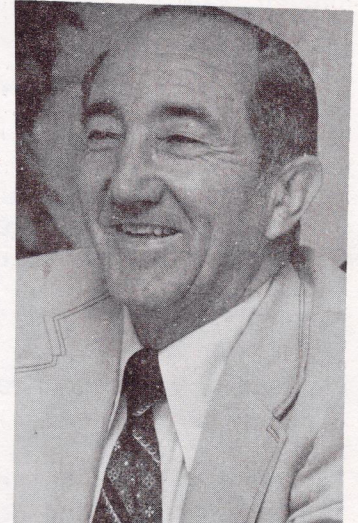
I have always felt a women's place is in the home, but after hiring two excellent female Field Assistants I have had to reassess my thoughts on the subject.

I was working the Zeona, South Dakota Project and had been having trouble finding a Field Assistant when I got the idea of calling the Belle Fourche employment office, and as an after-thought I told the interviewer that I would not be adverse to them sending a female. Three days later the proprietor of the Mud Butte store told me that a pretty girl had been looking for me. I contacted the applicant and asked her to report for work having doubts about the wisdom of my decision. Ms. Karen Phillips proved to be an intelligent, willing worker who was very competent and pleasant and who was very easy on the Government equipment (such as the Honda and stadia board). She also had several years of college training whereas most of the male Field Assistants I hire would barely be capable of getting through grade school by the rear door.

Recently, I was again having trouble finding a Field Assistant and went to the Junction City, Kansas, employment office where I hired Ms. Pam Hogan. While Ms. Hogan has only worked a short time, she has proven to be as exceptional as Ms. Phillips. In conclusion, I might add that I think we should judge female applicants more by their stature than their gender.

MCMC RETIREES

Lee A. Suarez has chosen to retire on November 17 1979, at which time he will have completed 37 years of Federal service.



Upon graduation from Louisiana State University in 1942 with a bachelor's degree in engineering, Lee began his Federal career with the Tennessee Valley Authority working as a Civil Engineer in control surveys and later as a map editor. In the latter capacity he prepared many maps in the European and Asiatic areas for the Defense Department. In the Spring of 1948 he transferred to the Topographic Division, USGS, in Rolla and worked in the Branch of Cartography. In July 1948 he was promoted to Chief of Color Separation Section. During his tenure in this position he developed many techniques and methods to produce color separation plates used in the printing of USGS maps. In 1960 Lee became a Charter Member, Editorial Review Board, with the Topographic Division Staff in Washington, D.C. He co-authored many topographic instructions presently being used by the Survey. In 1962 he was selected to head up the cartographic operation in the Branch of Special Maps. Lee was responsible in the design of many USGS special map

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series such as Antarctica 1:250,000-scale,
U.S. Congressional Map and others. He
returned to Rolla in August 1966 as
Assistant Chief, Branch of Cartography.
In 1971 he was promoted to Chief,
Branch of Cartography, the position from
which he is retiring.

For his outstanding service as a carto-
grapher-administrator and his many val-
uable contributions to the Geological
Survey, Lee was awarded the Meritorious
Service Award of the Department of the
Interior in 1976.

IN MEMORIAM

Martin Berg, father of Mark Berg
Jessie Smith, mother of W. E. Smith
Gertrude Ummel, mother of Otis Ummel

THANK YOU

As usual, you responded beautifully to
a co-worker in need.

To those of you who so generously
assigned your blood donation in Al's
name to the Barnes Hospital Blood Bank,
Al and I both say a most grateful THANK
YOU.

Vernice Dewing

This is a belated thank you. Time has
passed so swiftly that I am behind in
the things that I wanted to do, and even
more so in the many things that I should
do. Thanks for the scroll, plumb bob,
and golf bag. Contrary to the promise
made at the time I received the gift,
it has not reduced my golf score ten
strokes, but I keep trying daily.

Thanks again for everything.

Don Harper

SAFETY NEWS

Harrison C. Meaux, Jr. Has been selected
as chairperson, MCMC Safety Committee,
effective October 1, 1979. Members of
the Safety Committee are: Edward W.

Cain, P&P; Wilbert C. Malone, FS;
Stanley B. Brady, P; and Clarence E.
Cook, C.

Our thanks are extended to Floyd Teter,
past chairperson and to the Safety
Committee members for monitoring our
Center and providing a safe environment
for all of us to work in.

AWARDS

Suggestions

Joseph N. Funk (Ret), GS-79-16-M,
Bench-Mark Reset Kit
James C. Earl (P), GS-79-14-M,
Correction Scribing Errors on
Coated Mylar with the "Film Opaquer"
Fine Point Paint-Out Pen
Minnie J. Bradford (C), GS-79-21-M
Use of Scratch Knife for Chang-
ing Negatives

Special Achievement

Laura C. Bennett
Homer W. Briggeman
James C. Earl
Donald R. Lucas
Thomas G. Larson

PERSONNEL ACTIONS (through October 5)

Accessions

Melvin O. Lee, Surveying Technician, FS,
GS-4.
Gladys M. Conaway, Illustrator (Trainee)
P, GS-4
Mary B. Childs, Carto. Aid, C, GS-2 (part-
time).
David K. Tennant, Carto. Aid, C, GS-2,
(part-time).
Priscilla J. Evans, Secretary (steno), C,
GS-5
Robert E. Rinehart, Surveying Technician,
FS, GS-5
Roger L. Abbott, Cartographer, OCC, GS-5
Gerald W. Yandell, Cartographer, OCC, GS-5
David A. Raimond, Surveying Technician,
FS, VRA appt., GS-4.

Detail (NTE 120 days)

Donald A. Giesler, Carto. Tech., FS, FSIS
to Field Dist.

OTHER PERSONNEL ACTION

Cortney Swanson, Cartographer, GS-12,
RMMC, FS, FSIS, promotion

Termination of Detail (NTE 60 days)

Charles A. Scott, Cartographer, C, Review
Edit Group, to Editing Unit "B".

(NTE 90 days)

Dallas H. Robertson, Cart. Tech., C, to
Comp. Unit "B".

(NTE 120 days)

Thomas C. Miller, Cartographer, C, Off.
of the Br. Chief, to C, Editing Unit "A".
Zaddie B. Aston, Carto. Tech., C, Off.
of Sect. Chief, to C, Comp. Unit "B".

Reassignments

Richard A. Schwab, Cartographer, GS-12,
to Editing Unit "A".

Change to Full-Time

Joyce L. Rigsby, Carto. Tech, C, GS-7
Kenneth L. Robinson, Photogrammetry Aid,
OCC, GS-3

Robert D. Scott, Electronics Tech, OCC,
GS-5

David A. Lenzi, Carto. Tech., P, GS-5

Promotions

George G. Cannell, Supv. Photogr., C,
GS-12

Albertina M. Ahlstedt, Carto Tech, C,
GS-5

Richard E. Parker, Section Chief, P,
GS-12

Ricky L. Mace, Carto Tech, P, GS-5

David A. Lenzi, Carto Tech, P, GS-5

David L. Breuer, Carto Tech, P, GS-6

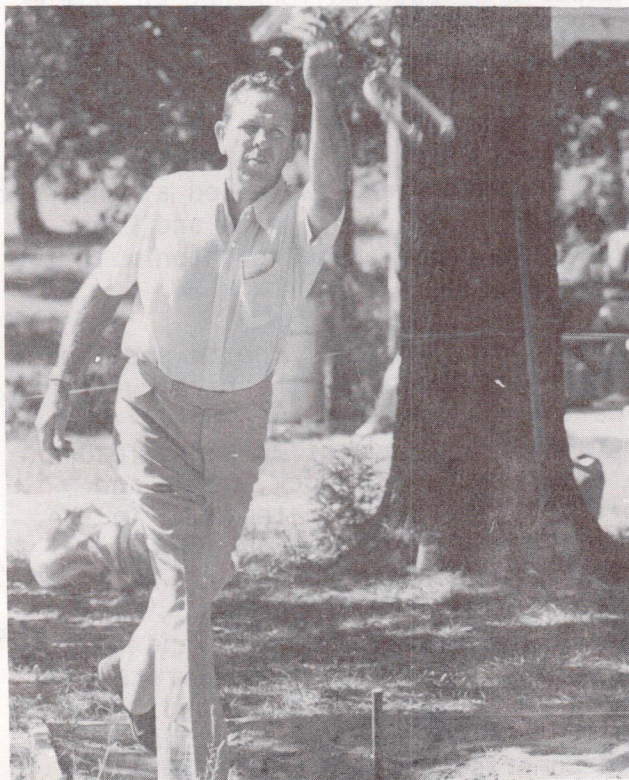
Melvin L. Williams, Carto Tech, C, GS-7

Losses

Donald R. Tyler, FS to C of E, KC, MO

SPORTS

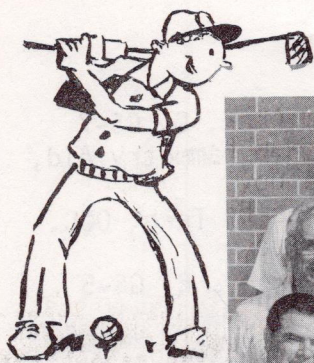
by L. L. Jontz



BEASLEY CAPTURES FIRST HORSESHOE TITLE

Participating in his first Survey horse-shoe tourney, Don Beasley captured the championship against Gene Lortz, 21-19. In the double-elimination affair that witnessed such favorites as Ken Gabel, Hal Ogletree, and Roy Ferguson eliminated in the earlier rounds, the final four of Ray Collier, Don Sidwell, Lortz, and Beasley battled for the title. After Sidwell eliminated Collier, Lortz took the consolation bracket by nudging out Sidwell 21-19. Lortz, on the brink of elimination, handed Beasley his initial loss 21-19 but in the final match of the afternoon, Beasley captured the title by pitching three unanswered ringers after trailing most of the match.

GOLF CHAMPIONSHIP WON BY LONGKNOCKERS



The 1979 USGS team golf championship went to the Longknockers, captained by Hal Ogletree. Accepting their champi-

onship trophies following the annual golf banquet at the St. James Country Club, were Hal Ogletree, Don Giesler, Ed Leonard, Don Harper, Marty Moreland, Max Voight, George Redwine, and Perry Metcalf. Earlier in the day, the annual USGS golf tournament was held with prizes awarded to the following winners: Championship Flight-Stan Kirkendall-78, A Flight-Bob Cruts-85, B Flight-Gene Lortz-91, C Flight-Marty Moreland-95, D Flight-Gene Cook-99, closest to pin-Terry Burrell, and longest drive-Marty Moreland.

SURVEY GIRL PLACES AT STATE

Shelley Hood of the Branch of Cartography recently competed in the Missouri State Women's Bowling Championships at Jefferson City and walked away with fifth place out of a field of hun-

dreds. Shelley, a 160 league bowler, backed an opening 210 game with games of 164 and 186 for a scratch series of 560 and handicap series of 722.

CARTOGRAPHY CAPTURES SOFTBALL CROWN

Lashing out seventeen hits and making the most of ten errors by the opponent, the Branch of Cartography, better known as Parky's Pirates, whipped the cartographer trainees (Southern's Discomforts) 17-8 to capture the 1979 Mid-Continent softball title. Numerous errors by the trainees and the long ball hitting of Gerry Pruett and Kenny Salts allowed the Pirates to jump out to a 12-2 lead before the trainees could manage six tallies of their own in the fourth inning. But a solid Pirate defense and five additional runs allowed the Bucs to win the tourney for the second time in three years with an undefeated record.



The opening game of the three-team, double-elimination tourney saw Parky's Pirates humiliate Southern's Discomforts, 24-9, as Gerry Pruett highlighted the initial inning with a two-run homerun, one of five hits for the powerful shortstop. The Pirates added six in the second and twelve in the fourth in the runaway victory. Keith Conaway, Ed Leonard, and George Cannell backed Pruett with 5, 3, and 3 hits respectively while Jontz and Yandell lashed out 3 hits each for the trainees.

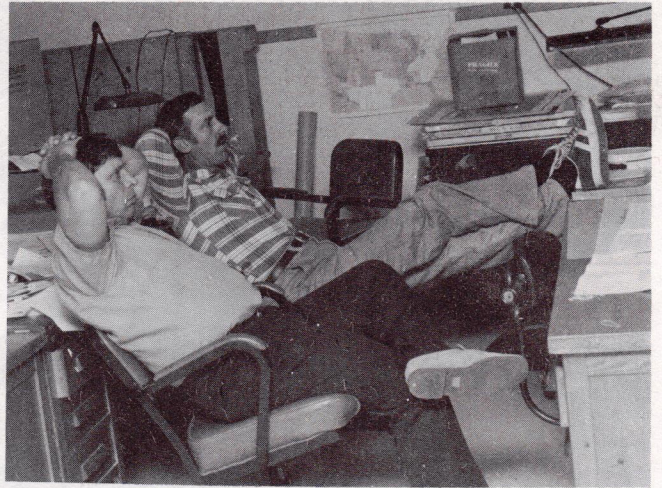
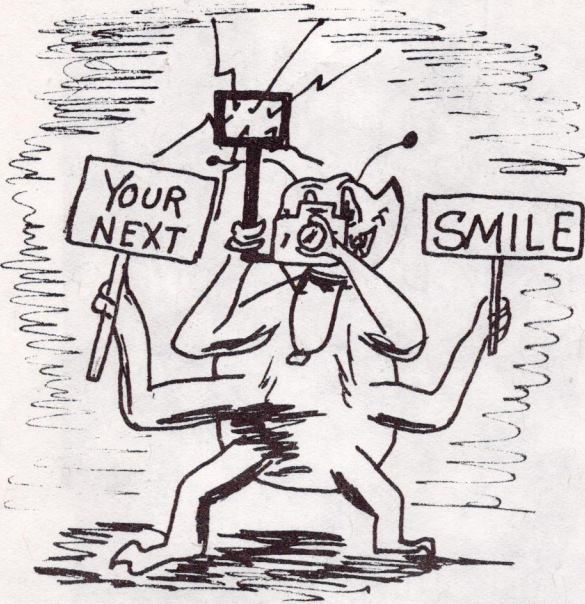
Facing elimination, Southern's Discomforts, behind their strong outfield, bounced back to defeat Hal's Angels (Photogrammetry) 4-1 in the second game of the tournament. With neither team capable of putting together an offensive threat, the three runs tallied in the second inning were all the Discomforts needed in this professionally played game. The Angels were led by Dake and Osick with two hits each, while the trainees were led at the plate by Conroy with three hits and Lemen, Giebink, Jontz, and Creighton with two hits each.

The opening round of the tourney ended in a game featuring the rivalry of Cartography and Photogrammetry. Photogrammetry jumped out to a 7-3 lead on timely hits by Bullock, Osick and Sidwell, but the Pirates rose to the occasion by scoring eight times in the fifth and sixth innings while holding the Angels to three. Leonard, Giesler, Conaway, and Moreland led the attack for the victorious Pirates, while Allison, Dake, and Lortz teamed with their above mentioned teammates to comprise most of the Angel's hits.



ROVING

CAMERA



"Does Goldberg really know what he's talking about?"

